

IBM ThinkPad A Series Notebooks

Highlights

A wide range of sleek, powerful models

The new ThinkPad' A Series is the thin, powerful, all-in-one desktop alternative. From affordable entry notebooks to performance notebooks, the ThinkPad A Series models can enhance and simplify your mobile computing e-xperience in your business and personal life.

ThinkPad A20m: affordable entry model, easy-to-use features

The ThinkPad A20m entry models offer Intel^{**} processors at up to 700MHz¹, displays up to 15" and travel weights starting at about 2.7kg². Plus, the new ThinkPad Button with Access ThinkPad and ThinkPad Assistant* give you one-button access to a universe of online system information, services and solutions.

ThinkPad A20p: high performance model, rich multimedia

The 38.1mm³ thin ThinkPad A20p performance models have a Titanium Composite in the cover for enhanced strength⁴ and lightweight design. With a travel weight of about 3.2kg, the ThinkPad A20p features a 15" SXGA Plus TFT display, video-in and video-out ports, MGI VideoWave III video editing software and full MPEG-2 support.

With the ThinkPad A20p, you can have superb graphics by connecting an optional external digital monitor⁵ via the Digital Video Interface (DVI) port on either of the optional docking solutions. The ThinkPad A20p also offers the new UltraPort connector with an optional digital UltraPort 'Camera – plus an Intel Mobile Pentium" III processor at 700MHz with Intel SpeedStep" technology.

Interchangeable devices

You can swap standard and optional devices such as CD-Read/Write, DVD-ROM, CD-ROM, SuperDisk (LS-120), second hard disk drive or second battery using the new integrated, easy-loading modular Ultrabay 2000. The Ultrabay 2000 devices, the new optional ThinkPad Port Replicator and the ThinkPad Dock can also be used with the new ThinkPad T Series models.







Versatile connectivity

You'll be ready to connect with the standard RJ-45 and RJ-11 ports and the versatile user-accessible Communications Bay, which makes it easier to service and ready for industry-standard Mini PCI cards, including the 56K V90 modem⁶ or combined 56K V90/EtherJet* solution. The ThinkPad A Series can also let you work

wireless with the optional 802.11b wireless LAN solution ¹⁸. To simplify device connectivity and remove the need for cables, IBM is planning to announce Bluetooth wireless technology communications devices including a Bluetooth PC Card option and Bluetooth option for the ThinkPad UltraPort connector in the second half of 2000.

ThinkPad UltraPort connector

The ThinkPad UltraPort connector is a port conveniently positioned on top of the display edge that's designed to attach the optional UltraPort Camera. Future UltraPort options are planned for the second half of 2000.

	A20p	A20m	A20m	A20m	A20m
Windows 98 machine type Windows 2000 machine type	2629-61G/6SG 2629-62G/6TG	2628-41G/4SG 2628-42G/4TG	2628-31G/3SG 2628-32G/3TG	2628-21G/2SG 2628-22G/2TG	2628-11G/1SG 2628-12G/1TG
Windows 98 part number ¹² Windows 2000 part number ¹²	A2061UK/6SUK A2062UK/6TUK	A2041UK/4SUK A2042UK/4TUK	A2031UK/3SUK A2032UK/3TUK	A2021UK/2SUK A2022UK/2TUK	A2011UK/1SUK A2012UK/1TUK
Intel Processor	Mobile Pentium III at 700MHz¹with Intel SpeedStep technology	Mobile Pentium III at 700MHz with Intel SpeedStep technology	Mobile Celeron" at 500MHz	Mobile Pentium III at 500MHz	Mobile Celeron at 500MHz
Level 2 cache (at processor speed)	256KB	256KB	128KB	256KB	128KB
Display type	15" SXGA+ (1400×1050)	14.1" XGA (1024x768)	15" XGA (1024x768)	12.1" SVGA (800x600)	12.1" SVGA (800x600
Memory (std/max) ⁷	128MB/512MB	64MB/512MB	64MB/512MB	64MB/512MB	64MB/512MB
Graphics memory (chip)	16MB VRAM (ATI Rage Mobility 128)	8MB VRAM (ATI Rage Mobility M1)	8MB VRAM (ATI Rage Mobility M1)	4MB VRAM (ATI Rage Mobility M)	4MB VRAM (ATI Rage Mobility M
Hard disk drive	18GB ⁸ upgradeable	12GB upgradeable	12GB upgradeable	6GB upgradeable	6GB upgradeable
DVD-ROM or CD-ROM drive ⁹	6X-2X DVD-ROM	24X-10X CD-ROM	24X-10X CD-ROM	24X-10X CD-ROM	24X-10X CD-ROM
Communications Bay	56K ⁶ V90 Mini PCI card (models 11G/12G/21G/22G/31G/32G/41G/42G/61G/62G models only) or IBM 10/100 EtherJet Mini PCI Adapter with 56K Modem [#] (models 1SG/1TG/2SG/2TG/3SG/3TG/4SG/4TG/6SG/6TG only)				
PC Card support	2 Type II, 1 Type III	2 Type II, 1 Type III	2 Type II, 1 Type III	2 Type II, 1 Type III	2 Type II, 1 Type III
Keyboard	Ergonomic keyboard with palm rest, TrackPoint pointing device with "Press-to-Select" and Internet Scroll Bar				
Battery type/battery life ¹⁰	Li-lon 9-cell/4.5hr	Li-lon 6-cell/4.0hr	Li-lon 6-cell/3.5hr	Li-lon 6-cell/3.5hr	Li-lon 6-cell/3.5hr
Ports	RJ-45, RJ-11, S-video in/out (models 61G/62G/6SG/6TG only), serial, parallel, keyboard/mouse, external monitor, USB, infrared				
ThinkLight	Illuminates the keyboard to	o improve visibility in low-lig	ht conditions (available on al	models)	
UltraPort connector	yes	no	no	no	no
Titanium Composite cover	yes	no	no	no	no
Dimensions ³	329x267.5x38.1mm	317x267.5x36.7mm	317x267.5x36.7mm	317x267.5x36.7mm	317x267.5x36.7mm
Travel weight ² with CD/DVD-ROM drive	3.2kg 3.4kg	2.8kg 3.0kg	2.9kg 3.1kg	2.7kg 2.9kg	2.7kg 2.9kg
Operating systems supported ¹¹	Microsoft" Windows" 2000) Professional, Windows 98,	Windows 95, Windows NT** 4	0.0	
Limited warranty	3 years	1 year	1year	1year	1 year
Included software ¹³	,	nodels only), Update Conne	s, Easy Keys Utility, Access Thector, ¹⁴ MGI VideoWare III (Th		·

[#] Ethernet technology based on an Intel chipset

Additional ThinkPad notebook advantages

Flexible docking options

- ThinkPad Port Replicator offers convenient cable management including the RJ-11 and RJ-45 pass-through
- ThinkPad Dock provides cable management and desktop expansion including a second Ultrabay 2000, plus another slot for a half-size PCI card.

Ease-of-use

- ThinkPad Button gives you one-button access to ThinkPad Assistant and Access **ThinkPad**
- ThinkPad Assistant offers a quick search engine and online user's guide, plus animated demos of operating procedures
- Access ThinkPad links to the information you need to set up, learn about and enhance your ThinkPad A Series notebook
- Individual volume controls up, down and mute for easily accessible volume control.

ThinkPad A Series accessories and upgrades

Options by IBM

Options by IBM offers a wide range of accessories and upgrades designed to work with either the ThinkPad A Series or T Series notebooks. For a complete list of options, visit ibm.com/pc/uk/options.

Desktop convenience and expansion

 ThinkPad Port Replicator 	02K8667
- ThinkPad Dock	27L9054
- ThinkPad Monitor Stand	00N8222
- IBM ScrollPoint* Pro Mouse	33L3247
- IBM Preferred Keyboard	28L3629

Power when you need it	
- ThinkPad A Series Battery	02K6640
- ThinkPad Battery Charger	02K6643
- ThinkPad 72WAC Adapter	02K6699

Ultrabay 2000 interchangeable accessories

- ThinkPad 6X-2X DVD	
Ultrabay 2000 Drive	05K9232
- ThinkPad SuperDisk (LS-120)	
Ultrabay 2000 Drive	05K9236

- ThinkPad 4X/4X/20X CD-Read/ Write Ultrabay 2000 Drive 00N8252
- ThinkPad Ultrabay 2000 Li-Ion Battery 02K6646 - Travel Bezel for Ultrabay 2000# 08K6070

Memory upgrades

- 64MB SDRAM Memory	20L0254
- 128MB SDRAM Memory	20L0255
- 256MB SDRAM Memory	33L3069

Interchangeable storage

- ThinkPad 6GB HDD	05K9237
- ThinkPad 12GB HDD	05K9238
- ThinkPad 18GB HDD	05K9239
- ThinkPad Second HDD	
Adapter for Ultrabay 2000##	08K6068
- IBM Portable Drive Bay 2000##	# 19K4484
- IBM 340MB Microdrive	00N8073

Digital Camera accessories

- 10/100 EtherJet CardBus

- IBM UltraPort Camera	08N1032

Stay connected

Ready Port Adapter	34L5301
- IBM 16/4 Token-Ring	
CardBus Adapter	34L4801

Wireless connectivity

- IBM 802.11 b PC Card 18	09N9863
- IBM 802.11 b Access Point ¹⁸	09N5UK2

Communication Bay choices

- IBM 10/100 Ethernet Mini PCI Adapter 09N9774 with 56K Modem by 3Com
- IBM 10/100 EtherJet Mini PCI Adapter with 56K Modem 08K3124

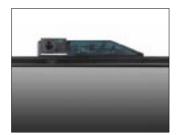
Protect your business intelligence

- ThinkPad SmartCard Security Kit 33L5071

ThinkPad Proven solutions¹⁵

Complementary to IBM's own options are additional third-party accessories from ThinkPad Proven* partners. ThinkPad Proven products are tested, warranted and supported by the manufacturer to ThinkPad Compatibility Standards. For a complete list, see ibm.com/pc/ thinkpad/proven.

- C-Technologies C-Pen "Electronic highlighter" that allows you to capture, edit, translate and send text to your ThinkPad notebook via IR
- Margi, Inc. TV-to-Go with Capture-to-Go, Theatre-to-Go and DVD-to-Go enhance your ThinkPad multimedia viewing experience
- 1 Veridicom, Inc. 5th Sense personal authentication fingerprint ID devices with Confirma data security software (connects via USB or parallel port)
 - TravRoute, Inc. Co-Pilot 2000 Door-to-Door GPS Navigation Solution: street maps, trip planning and driving directions
 - PORT, Inc. Carrying case customised for the ThinkPad A Series.



ThinkPad UltraPort connector with optional UltraPort Camera

[#] Provided by Compu-Lock (www.compu-lock.com)

^{##} To add a second hard disk drive, a second HDD adapter is required

^{***} The Portable Drive Bay accepts all Ultrabay 2000 devices

Global IBM service and support

- Personalised Web-based support
- International Warranty Service¹⁶
- One or three year limited warranty
- Local rate telephone¹⁷ hardware support during the warranty period
- IBM Update Connector¹⁴ helps you keep your notebook up-to-date with drivers and software upgrades via the Internet
- ServicePac* service options provide up to four years of service coverage from date of ThinkPad notebook purchase (including warranty period). Service options must be purchased during the original product warranty period. For more information, visit: as.ibm.com/asww/servpac

Total Cost of Ownership

- IBM Universal Manageability solutions can help you reduce your computer costs by making it easier to deploy, manage and maintain your notebook PCs. Visit ibm.com/pc/us/software/sysmgmt for more information.
- IBM PC Lifecycle Care provides proactive life cycle management and transition planning tools. Visit **ibm.com**/pc/ww/ solutions/lccare for more information.
- Upgradeable design and common accessories and upgrades help to ease support costs.

IBM SystemXtra

SystemXtra*¹⁸ is designed to help qualified customers make the most of their ThinkPad notebook investment by combining a host of technologies, services, software, training and convenient financing. Visit **ibm.com**/pc/uk/systemxtra for more information.

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UK company-wide registration to ISO9001 Certificate number FM 12587

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MHz only measures microprocessor internal clock speed, not application performance. Other factors also affect application performance. For Mobile Intel Pentium III processors featuring Intel SpeedStep technology, this denotes maximum performance mode; battery optimisation mode is approximately 80% of maximum performance mode.





- ² Includes battery and travel bezel option (purchased separately); weight may vary due to vendor components, manufacturing process and options.
- ³ Thickness may vary at certain points on the system.
- ⁴ Titanium Composite Carbon Fibre Reinforced Plastic has three times the strength of ABS plastic as tested by IBM using the high flex modulus test on 2/28/00.
- 5 DVI port provides direct DVI connection for IBM T55D and T85D Digital Flat Panel Monitors.
- Designed to be capable of receiving data at up to 56kbps with compatible phone line and server equipment, and transmitting data at up to 31.2kbps. Public networks currently limit download speeds to about 53kbps. Actual speeds vary and are often less than the maximum possible. Not available in some countries.
- Maximum memory varies depending on model and may require replacement of standard memory with optional maximum memory module.
- GB means one thousand million bytes when referring to hard disk drive capacity. Accessible capacity may
 yary.

 Accessible capacity may
 yary.
- ⁹ Variable read rate. Actual playback speed will vary and is often less than the maximum possible.
- These model numbers achieved a ZD BatteryMark Version 3.0 Battery Rundown Time of the times shown above. This test was performed without independent verification by ZD; ZD makes no representations or warranties as to these test results. BatteryMark is a trademark of ZD Inc. in the U.S. and other countries. A description of the environment under which the test was performed is available at ibm.com/pc/ww/thinkpad/batterylife.html. Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning and other customer preferences.
- Level of support varies by operating system.

 Operating systems not preloaded on the system may not provide full-feature functionality. Please refer to ibm.com/pc/support, select a notebook brand, click on "Product Information", choose your machine type, then click on "Product Limitations".
- Delivered with Windows 98 preloaded on the hard disk drive and a Windows 98 Recovery CD in the box. For customers who prefer Windows 95, a Windows 95 Recovery CD is also included for installation of Windows 95. For ThinkPad notebooks with Windows 2000 preloaded on the hard disk drive, a Windows NT 4.0 Recovery CD is included in the box.

For the latest version of this document, go to: ibm.com/pc/uk/update.html and select "ThinkPad" under the "brochures" section

- Some software may differ from its retail version (if any) and may not include user manuals or all program functionality. Warranty, service and support for non-IBM products are provided directly to you by third parties, not IBM. IBM makes no representations or warranties regarding non-IBM products. For non-IBM software, applicable third-party software licences may apply.
- ¹⁴ Update Connector is available to registered ThinkPad customers during the limited warranty period at no charge. Line charges may apply.
- 15 IBM makes no warranties, either express or implied, regarding ThinkPad Proven products and services, including Year 2000 readiness and any implied warranties of merchantability or fitness for a particular purpose.
- Available in those countries where IBM and IBM resellers sell and service ThinkPad products. Registration required. Service level is based on the standard service for ThinkPad notebooks in that particular country.
- 17 Response times may vary. May exclude some holidays.
- ¹⁸ Not available in some countries. Subject to conditions

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